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UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Kenneth H. Heffner, Charles W. Reed and David M. File

For: Wear-Resistant Electrically Conductive Body      Group Art Unit 1775

Serial No.10/ 662,162

Examiner: Archene Turner

Filed September 12, 2003

Navy Case Number 75463

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RESPONSE TO AN OFFICE ACTION MAILED MAY 18, 2006

HONORABLE COMMISSIONER OF PATENTS

P.O. Box 1450

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Sir:

Amended claims 2, 3 and 4 are attached. It is submitted that claimed subject matter of amended claims 2 and 3 is not obvious from Sumitomo Electric Ind Co (EP1174885).

It is also submitted that claimed subject matter of amended claim 4 is not obvious from Sumitomo Electric Ind Co (EP1174885) in view of Nissin Electric Co Ltd (JP06-275174).

REMARKS

Independent claim 2 has been amended to claim a conductive coating that contains simultaneously deposited, contiguous, ion-accelerated metal atoms and ion-accelerated diamond-like carbon atoms.

Claim 2 has also been amended to call for a rotor having a plurality of slip-rings, a conductive coating being on each slip-ring.

Dependent claims 3 and 4 have been amended so as to be consistent with amended claim 2.